

$Kv_{100} := 205$

Valve nameplate flow factor (SI Units)

$\%Open := [0, 10 \dots 100]$

$n := \text{length}(\%Open)$

$k := [3 \dots n]$

$Cv_{100} := 1.16 \cdot Kv_{100} = 237.8$

Valve flow factor (Imperial Units)

$Cv := \begin{bmatrix} 0 \\ \%Equal \end{bmatrix}$

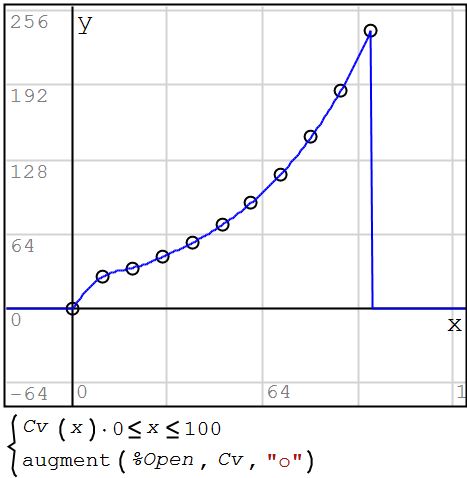
$Cv_k := Cv_{k-1} \cdot (1 + \%Equal \%)$

$\%Equal := \text{roots}(Cv_n - Cv_{100}, \%Equal) = 27.227$

For this equation, roots don't need a guess value

%Open	Cv
0.00	0.00
10.00	27.23
20.00	34.64
30.00	44.07
40.00	56.07
50.00	71.34
60.00	90.76
70.00	115.47
80.00	146.91
90.00	186.91
100.00	237.80

$Cv(x) := \text{cinterp}(\%Open, Cv, x)$



Alvaro

$\text{appVersion}(4) = "1.0.8348.30405"$